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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.	
08/863,103	05/23/97	BRYANT		C	E025	5-1030WC
		QM02/1012		EXAMINER KOCZO JR, M		
				ART	TINU	PAPER NUMBER
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				DATE MAILED: 10/12/00		

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Application No. 08/863,103

Applicant(s)

Examiner

Michael Koczo, Jr.

Bryant Group Art Unit

3748

Office Action Summary

X Responsive to communication(s) filed on Aug 9, 2000	
This action is FINAL .	
☐ Since this application is in condition for allowance except for formal main accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11;	
A shortened statutory period for response to this action is set to expire is longer, from the mailing date of this communication. Failure to respond application to become abandoned. (35 U.S.C. § 133). Extensions of time 37 CFR 1.136(a).	within the period for response will cause the
Disposition of Claims	
	is/are pending in the application.
Of the above, claim(s) 27, 32, 33, 37, 40-42, 45, 48, 50, and 51	is/are withdrawn from consideration.
	is/are allowed.
X Claim(s) 25, 34, 36, 38, 44, 46, 52, and 53	is/are rejected.
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☐ Claims are su	
 ☐ The proposed drawing correction, filed on	S.C. § 119(a)-(d). y documents have been al Bureau (PCT Rule 17.2(a)).
Attachment(s)	•
 Notice of References Cited, PTO-892 □ Information Disclosure Statement(s), PTO-1449, Paper No(s). □ Interview Summary, PTO-413 □ Notice of Draftsperson's Patent Drawing Review, PTO-948 □ Notice of Informal Patent Application, PTO-152 	

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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Applicant's arguments filed on August 9, 2000 have been fully considered but they are not persuasive.

Claims 46 and 53 are rejected under 35 U.S.C. 102(b) as being anticipated by Bricout.

Bricout discloses an atmospheric air intake valve 1 and a compressed air intake valve 6. Figure 2 shows that the compressed air valve 6 stays open (line 23) past BDC (line y-y) to point E which is

during the compression stroke.

Claims 25, 34, 36, 44 and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bricout in view of Miller '934. Bricout discloses the invention substantially as claimed. However, Bricout does not disclose an intercooler for reducing the charge air temperature. Miller '934 discloses an intercooler 36 for cooling the charge air in order to increase its density. In view of this teaching, it would have been obvious to provide the engine of Bricout with an intercooler. Miller '934 also teaches control of the valve timing to optimize engine operation under varying conditions.

Claims 35 and 48 are objected to as being dependent on a rejected claim. These claims will be allowed if made self-contained.

Claims 39 and 47 are allowed.

Applicant argues that "Miller and Bricout do not teach cylinders with two inlet ports, nor do they teach any introduction of air to the cylinder during the compression stroke."

Bricout shows two inlet ports with valves 1 and 6. Air is introduced during the compression stroke as explained supra.

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Miller '934 shows an air inlet port with valve 42 and a fuel gas inlet port with valve 46.

Attention is directed to column 2, lines 31 to 35 which state that "Or, the time of closing might be delayed passed bottom dead center with closing occurring 60 or 70 degrees before top dead center in which case the effective compression ratio would be reduced, say for example 6 to 1."

That is, the inlet valve is open during the compression stroke.

Claims 27, 32, 33, 37, 40 to 42, 45, 48, 50 and 51 stand withdrawn from consideration as being drawn to a non-elected species.

Michael Koczo, Jr. Primary Examiner

Group Art Unit 3748

M. Koczo, Jr./mnk October 11, 2000 TEL 703-308-2630 FAX 703-308-7763